We claim:

- 1. A device for delivering a stent, the device comprising:
 - a) an inner shaft having a proximal end and a distal end;
- b) an outer shaft moveable with respect to the inner shaft, the outer shaft having a proximal end and a distal end;
 - c) a stent redeiving area on the inner shaft adjacent the inner shaft distal end;
 - d) a tapered tip mounted on the inner shaft distal end;
- e) means coupled to the inner shaft and outer shaft for manipulating the outer shaft with respect to the inner shaft; and
 - f) a stent positioned in the stent receiving area..
- 2. A device of claim 1 and further comprising a channel member disposed between the inner shaft and the outer shaft.
- 3. A device of claim 2 wherein the channel member defines a plurality of channels extending along a length of a lumen defined between the outer shaft and the inner shaft.
- 4. A device of claim 3 wherein the channel member defines eight channels extending along the length of the lumen defined between the outer shaft and the inner shaft.
- 5. A device of claim 2 wherein the channel member extends from the inner shaft.



- 6. A device of claim 1 and further comprising a radiopaque marker on the inner shaft approximate the stent receiving area.
- 7. A device of claim 1 and further comprising a coupling member on said outer shaft and a valve relief, the coupling member selectively coupling the valve relief to the outer shaft.
- 8. A device of claim wherein the means coupled to the outer shaft and inner shaft comprises a handle with a reciprocating knob coupled to the outer shaft whereby the outer shaft is moved with respect to the movement of the knob.
- 9. A device of claim 1 wherein the means coupled to the outer shaft and inner shaft includes a moveable knob coupled to the inner shaft for moving the inner shaft longitudinally with respect to the outer shaft.
- 10. A device of claim 1 wherein the tip has a proximal end and a distal end and the tip is tapered towards its distal end.
- 11. A device of claim 1 wherein the stent receiving area has a stent stop.
- 12. A device of claim 1 wherein the stent stop comprises the radiopaque marker.

- 13. A device of claim 1 and further comprising a radiopaque marker on the distal end of the outer shaft.
- 14. A device of claim 1 wherein the stent has a plurality of segments in a first radial position and a plurality of second segments in a second radial position when in an unexpanded configuration.
- A method for mounting on a delivery system a stent comprising a plurality of segments, the method comprising:
 - a) reducing the plurality of segments to a first radial position;
- b) moving selected stent segments from the first radial position to a second radial position, wherein the second radial position is less than the first radial position;
 - c) positioning the stent in the delivery system.
- 16. A method of claim 15 wherein positioning the stent in the delivery system comprises pulling the stent into the delivery system.
- 17. A method of claim 15 wherein reducing the stent to the first radial position comprises placing the stent in a roll down fixture, rolling the stent in a the roll down fixture such that the segments are in contact with each other, and placing the rolled down stent from the roll down fixture into a tubing.

 18. A method for mounting a self expanding stent on a delivery system having an inner shaft and an outer retractable shaft, said method comprising:

- a) placing a stent in a roll down fixture, the stent defined by a plurality of segments;
- b) rolling the stent down to a first radial configuration;
- c) cooling the stent as it is being rolled down;
- d) moving the stent from the roll down fixture into a first tubing;
- e) moving the stent over the inner shaft and adjacent at least one marker band;
- f) moving selected stent segments from a first radial position to a second radial position as it is moved over the inner shaft; and
 - g) placing the stent into the delivery sheath.